

Western Electric Co., Incorporated,  
Engineering Dept.,  
New York.

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Issue 8A - BT-438069.  
Replacing all previous issues.  
January 21, 1921.

METHOD OF OPERATION  
SIGNAL CIRCUIT

Night Alarm - For Subscribers and Trunk Switchboard - Relay Switchboard #1 - Toll Switchboard #1.

GENERAL DESCRIPTION

1. This circuit is used to give an audible alarm, on incoming calls at the "A", "B" or E 1 toll switchboard. When a line lamp lights the bell of the 43-F subscriber's set rings notifying the operator that a call has originated. On incoming calls over call wire circuits an alarm is also given.

DETAILED DESCRIPTION

OPERATION

2. When the line relay in an associated line circuit operates, the line lamp lights in series with the B9 relay in the auxiliary signal circuit E, operating it. The operation of this relay lights the pilot lamp and, if the night alarm key in the night alarm circuit is operated, operates the B9 relay E. The operation of this relay connects ringing current through the 43-F subscriber's set, causing the bell to ring.

3. When the signal lamp associated with an incoming call circuit lights, the B9 relay operates. The operation of the B9 relay connects ringing current through a 43-F subscriber's set, causing the bell to ring.

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CIRCUIT REQUIREMENTS

OPERATE

NON-OPERATE

RELEASE

B9  
(All relays) After a soak of approx-  
imately .3 amp.  
Test .062 amp.  
Readj..054 amp.

After a soak of approx-  
imately .3 amp.  
Test .003 amp.  
Readj..006 amp.

118-U  
(All relays) After a soak of approx-  
imately .970 amp.  
Test .065 amp.  
Readj. .061 amp.

After a soak of approx-  
imately .970 amp.  
Test .008 amp.  
Readj..016 amp.

ENG.--WHL-JO-FF.  
6/24/21

CHK'D.--CHW.

APPROVED - C. L. SLUYTER, G.M.L.